## BRUHAT BANGALORE MAHANAGARA PALIKE

**Name of Work: Maintenance of Storm Water Drains in ward No 8**

**Job Code:- P-3297**

**Est Cost: =5.00Lakhs**

| Sl. No. | Description of work | Unit | No. | Length m | Breadth m | Depth m | Quantity | Rate in Rs. | Amount in Rs. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | KSRRB M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. **iii) Dismantling Stone Masonry B. Rubble Stone maonry in cement mortar (P.No.140, I.No.18.27 of PW,P&IWTD SR 2018-19)** | | | | | | | | |
| | **Damaged SSM** | Cum | | | | | | | |
| | Cp Layout 3rd Cross | | 2 | 230.00 | 0.45 | 0.23 | 47.61 | | |
| | **30% SSM is Considered as Damaged** | | | | | | -11.90 | | |
| | | | | | | **Total Quantity** | **35.71** | **372.06** | **13285.00** |
| | **Basic rate** | **351.00** | | | | | | | |
| | **Area Weightage 6%** | **21.06** | | | | | | | |
| | **Total** | **372.06** | | | | | | | |
| 2 | KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. **i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. (P.No. 139, I.No. 18.18 of CSR 2018-19)** | | | | | | | | |
| | **Cp Layout 3rd Cross** | Cum | | | | | | | |
| | Coping Dismantling | | 2 | 230.00 | 0.45 | 0.10 | 20.70 | | |
| | | | | | | **Total Quantity** | **20.70** | 699.42 | **14478.00** |
| | **Basic rate** | **557.00** | | | | | | | |
| | **Loading and unloading with 20km lead= 57+2.0x1.3x20** | **109.00** | | | | | | | |
| | **Area Weightage 6%** | **33.42** | | | | | | | |
| | **Sub Total** | **699.42** | | | | | | | |
| | **Total** | **699.42** | | | | | | | |
| 3 | KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 **(P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)** | | | | | | | | |
| | **Drain Desilt** | Cum | | | | | | | |
| | Cp Layout 3rd Cross | | 1 | 230.00 | 1.50 | 1.20 | 414.00 | | |
| | | | | | | **Total Quantity** | **414.00** | **246.00** | **101844.00** |
| | **Basic rate** | **130.00** | | | | | | | |
| | **Loading and unloading with 20km lead= 57+2.0x1.28x20 = 108.2** | **108.20** | | | | | | | |
| | **Area Weightage 6%** | **7.80** | | | | | | | |
| | **Total** | **246.00** | | | | | | | |
| 4 | KSRB 5.2-3: Providing and constructing **granite size stone masonry** in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13.(using available stones) (P.No.25, I.No.5.6 of PW, P&IWTD S.R 2018-19) | | | | | | | | |
| | **Reuseing of SSM** | Cum | | | | | | | |
| | Item No 01 | | | | | | 35.71 | | |
| | | | | | | **Total Quantity** | **35.71** | **3176.18** | **113414.00** |
| | **Basic Rate** | **4596.00** | | | | | | | |
| | **Deduct Boulders rate (100*13)** | **1333.00** | | | | | | | |
| | **deduct contractor profit** | **-133.30** | | | | | | | |
| | **deduct overhead charges** | **-133.30** | | | | | | | |

| Sl. No. | Description of work | Unit | No. | Length m | Breadth m | Depth m | Quantity | Rate in Rs. | Amount in Rs. |
|---|---|---|---|---|---|---|---|---|---|
| | **Arrived Rate** | **2996.40** | | | | | | | |
| | **Area Weightage 6%** | **179.78** | | | | | | | |
| | **Total** | **3176.18** | | | | | | | |
| 5 | KSRB 5.2-3: Providing and constructing **granite size stone masonry** in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. **(P.No.25, I.No.5.6 of PW, P&IWTD S.R 2018-19)** | | | | | | | | |
| | **SSM Drain / Flagging** | Cum | | | | | | | |
| | 20% Missing SSM | | | | | | 11.90 | | |
| | | | | | | **Total Quantity** | **11.90** | **4871.76** | **57986.00** |
| | **Basic rate** | **4596.00** | | | | | | | |
| | **Area Weightage 6%** | **275.76** | | | | | | | |
| | **Total** | **4871.76** | | | | | | | |
| 6 | KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **(P.No.115, I.No.15.1 of PW, P&IWTD S.R 2018-19)** | | | | | | | | |
| | SSM Drain / Flagging | Sqm | | | | | | | |
| | 20% Missing SSM | | 2 | 230.00 | | 0.23 | 105.80 | | |
| | | | | | | **Total Quantity** | **105.80** | **149.46** | **15813.00** |
| | **Basic rate** | **141.00** | | | | | | | |
| | **Area Weightage 6%** | **8.46** | | | | | | | |
| | **Total** | **149.46** | | | | | | | |
| 7 | KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.6 of PW,P&IWTD S.R 2018-19) | | | | | | | | |
| | **Coping** | Cum | | | | | | | |
| | **20% Missing SSM** | | 2 | 230.00 | 0.45 | 0.10 | 20.70 | | |
| | | | | | | **Total Quantity** | **20.70** | **5747.32** | **118970.00** |
| | **Basic rate** | **5422.00** | | | | | | | |
| | **Area Weightage 6%** | **325.32** | | | | | | | |
| | **Total** | **5747.32** | | | | | | | |
| | | | | | | | **Total Construction Cost** | | **435790.00** |
| | | | | | | | **12% GST** | | **52294.80** |
| | | **Cost towards Preparation of DPR and PMC / Third Party inspection LS** | | | | | | | **8,716.00** |
| | | | | | | | **Sub Total** | | **496800.80** |
| | | | | | | | **Miscellaneous and rounding off** | | **3199.20** |
| | | | | | | | **Total** | | **500000.00** |

**Certificate.**

1 The rates adopted based on the PWD SR, Bangalore circle for year 2018-19.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Engineer

Executive Engineer

Assistant Executive Engineer

**Administrative Approval**

Accorded For ..... 5.00 Lakhs
Head of A/C..... P3297
CER NO :..... 03 ..... Dt:..28/5/2020

TA

CE (YNK)

TECHNICAL SANCTION

Accorded For Rs..... 5.00 Lakhs only
Head of A/c..... P3297
Div. Ref. No..... 67/20-21 Date..... 26/5/2020

AE 26/05

EE(BTP) 26/5